? ds

Set Items Description
S1 53 HEMOLYSIN AND (FUNGUS OR FUNGAL OR STACHYBOTRYS OR CANDIDA
OR ASPERGILLUS OR PENICILLIUM) AND ANTIBOD?
S2 35 RD S1 (unique items)
S3 29 HEMOLYSIN AND (ALBICANS OR CHARTARUM OR FUMIGATUS OR CHRYS-
OGENUM) AND ANTIBOD?
S4 11 S3 NOT S2

S5 5 RD S4 (unique items)
S6 307 HEMOLYSIN AND (ALBICANS OR CHARTARUM OR FUMIGATUS OR CHRYS-
OGENUM)
S7 112 RD S6 (unique items)
S8 96 S7 NOT (S2 OR S3)
? logoff y
09jun03 09:27:22 User226352 Session D705.3
$1.91 0.341 DialUnits File5
$43.75 25 Type(s) in Format 7
$43.75 25 Types
$45.66 Estimated cost File5
$0.33 0.056 DialUnits File6
$3.80 2 Type(s) in Format 7
$3.80 2 Types
$4.13 Estimated cost File6
$5.43 0.293 DialUnits File34
$5.35 1 Type(s) in Format 2
$112.35 21 Type(s) in Format 7
$117.70 22 Types
$123.13 Estimated cost File34
$0.31 0.044 DialUnits File40
$0.31 Estimated cost File40
$1.93 0.428 DialUnits File50
$46.00 23 Type(s) in Format 7
$46.00 23 Types
$47.93 Estimated cost File50
$0.18 0.048 DialUnits File65
$0.18 Estimated cost File65
$1.47 0.195 DialUnits File71
$1.68 1 Type(s) in Format 7
$1.68 1 Types
$3.15 Estimated cost File71
$3.62 0.392 DialUnits File73
$17.85 7 Type(s) in Format 7
$17.85 7 Types
$21.47 Estimated cost File73

?s s10/2001
87 S10
285421 PY=2001
S12 2 S10/2001
?s s10 not s12
87 S10
2 S12
S13 85 S10 NOT S12
?s s13 and (antibod? or monoclonal? or polyclonal? or antiser? or immunoglob? or elisa or eliza or eia or eifla or assay?)
85 S13
571115 ANTIBOD?
153903 MONOCLONAL?
31604 POLYCLONAL?
51815 ANTISER?
117627 IMMUNOGLOB?
40980 ELISA
40 ELIZA
4925 EIA
0 EIFLA
377827 ASSAY?
S14 21 S13 AND (ANTIBOD? OR MONOCLONAL? OR POLYCLONAL? OR
ANTISER? OR IMMUNOGLOB? OR ELISA OR ELIZA OR EIA OR EIFLA
OR ASSAY?)
?t s14/9/all

14/9/1
DIALOG(R)File 155:MEDLINE(R)

10773135 20095921 PMID: 10632060
The comparison of characteristics between membrane-active antifungal
peptide and its pseudopeptides.
Oh JE; Hong SY; Lee KH
Protein Chemistry Laboratory, Mogam Biotechnology Research Institute,
Yongin-city, Kyunggi-Do, South Korea.
Bioorganic & medicinal chemistry (ENGLAND) Nov 1999, 7 (11) p2509-15
, ISSN 0968-0896 Journal Code: B38
Languages: ENGLISH
Document type: Journal Article
Record type: Completed
Subfile: INDEX MEDICUS
By the introduction of various amide surrogates, novel pseudopeptides
corresponding to a membrane active depsipeptide were synthesized and their
native characteristics compared with that of the peptide. The pseudopeptides had more resistance to serum proteases than the peptide and
similar antimicrobial activities to that of the peptide without hemolytic
activity. The pseudopeptides like the peptide were active against current
drug resistant fungi and pathogenic fungi isolated from patients, and also
had a strong synergism with current antifungal drugs against Candida
albicans. The leakage assay suggested that the pseudopeptides also acted
on the lipid membrane of pathogenic cells. These results indicated that the
novel pseudopeptides had advantages over the peptide as a candidate for a
novel antifungal drug and backbone modifications can be a tool in the
development of a novel antifungal agent from membrane-active peptides
isolated from natural sources or chemically synthesized.
Tags: Support, Non-U.S. Gov't
Descriptors: Antifungal Agents--pharmacology--PD: * Candida albicans
--drug effects--DE; *Oligopeptides--pharmacology--PD; Antifungal Agents
--chemistry--CH; Circular Dichroism; Drug Synergism; Half-Life; Hemolysis
--drug effects--DE; Liposomes; Microbial Sensitivity Tests
CAS Registry No.: 0 (Antifungal Agents); 0 (Liposomes); 0
(Oligopeptides); 0
(lysyl-lysyl-valyl-valyl--phenylalanyl-lysyl-valyl-lysyl-phenylalanyl-lysyl-lysinamide); 0
(lysyl-lysyl-valyl-valyl-phenylalanyl-lysyl-valyl-lysyl-phenylalanyl-lysine)
Record Date Created: 20000214

14/9/2
DIALOG(R)File 155:MEDLINE(R)

10149127 99268435 PMID: 10338113
A critical comparison of the hemolytic and fungicidal activities of cationic antimicrobial peptides.
Helmerhorst EJ; Reijnders IM; van 't Hof W; Veerman EC; Nieuw Amerongen
AV
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Biochemistry, Vrije Universiteit, The Netherlands.
ej.helmerhorst.obc.acta@med.vu.nl
FEBS letters (NETHERLANDS) Apr 23 1999, 449 (2-3) p105-10, ISSN
0014-5793 Journal Code: EUH
Languages: ENGLISH
Document type: Journal Article
Record type: Completed
Subfile: INDEX MEDICUS
The hemolytic and fungicidal activity of a number of cationic antimicrobial peptides was investigated. Histatins and magainins were
inactive against human erythrocytes and Candida albicans cells in phosphate
buffered saline, but displayed strong activity against both cell types when
tested in 1 mM potassium phosphate buffer supplemented with 287 mM glucose.
The HC50/IC50 ratio, indicative of the therapeutic index, was about 30 for
all peptides tested. PGLa was most hemolytic (HC50 = 0.6 microM) and had
the lowest therapeutic index (HC50/IC50 = 0.5). Susceptibility to
hemolysis was shown to increase with storage duration of the erythrocytes
and also significant differences were found between blood collected from
different individuals. In this report, a sensitive assay is proposed for the testing of the hemolytic activities of cationic peptides. This assay
detects subtle differences between peptides and allows the comparison
between the hemolytic and fungicidal potency of cationic peptides.
Tags: Animal; Comparative Study; Human; Support, Non-U.S. Gov't
Descriptors: Antifungal Agents--pharmacology--PD; * Hemolysins
--pharmacology--PD; *Peptides--pharmacology--PD; *Salivary Proteins
--pharmacology--PD; Amino Acid Sequence; Candida albicans